

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P455338

Luminaire Tested: **GLAN-SA6C-730-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6C-730-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32727 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



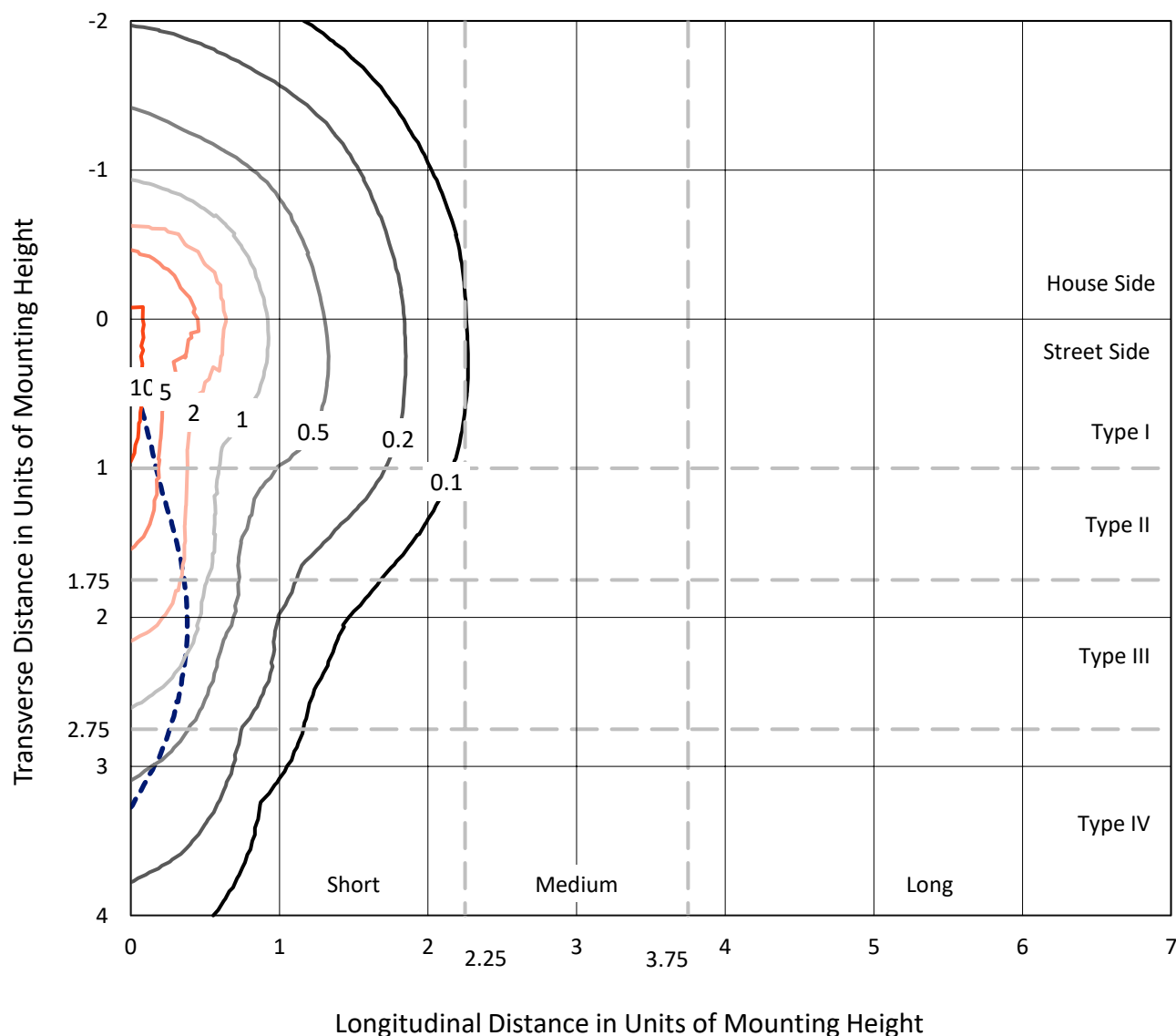
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



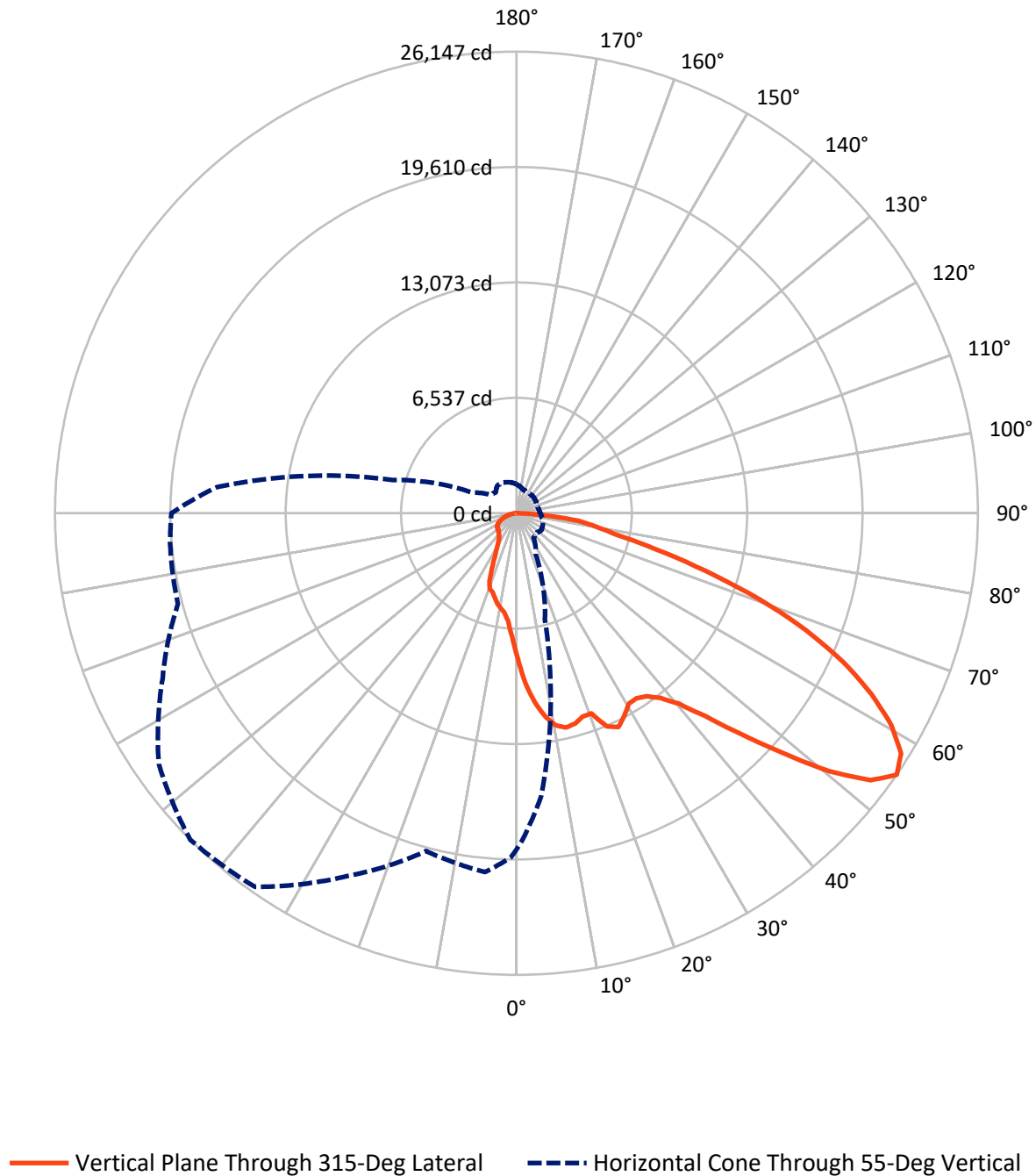
Based on 25 foot mounting height. Maximum calculated value = 14.1 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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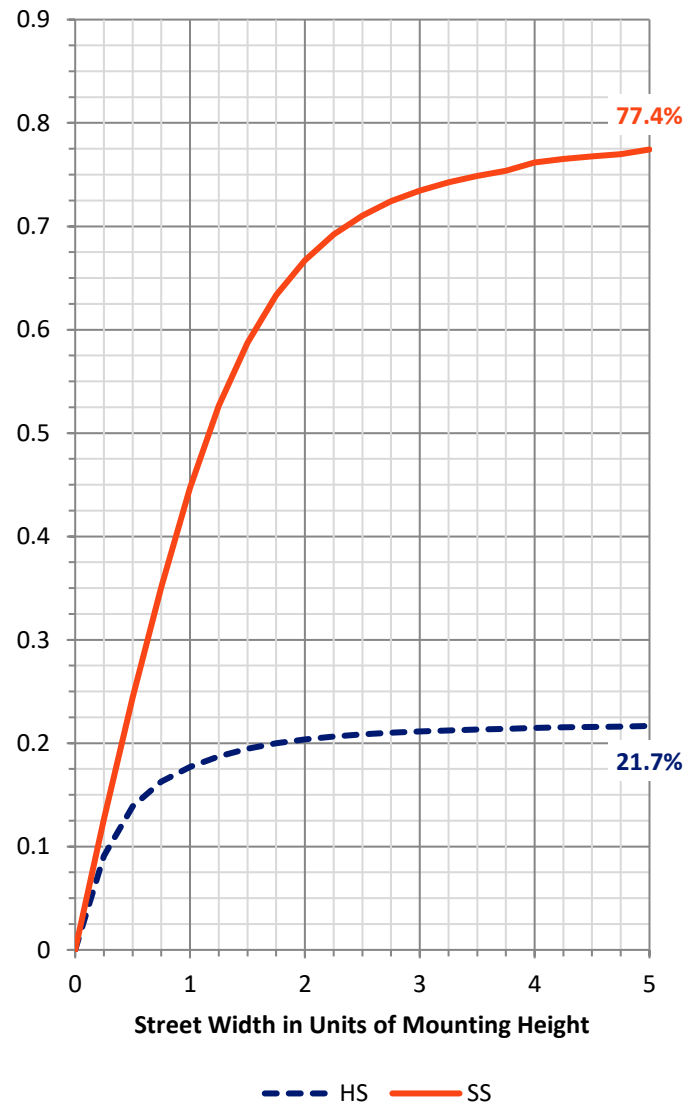
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7158.9   | 0.0    | 7158.9  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 25568.1  | 0.0    | 25568.1 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 32727.0  | 0.0    | 32727.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 696.1   | 2.1       |
| 10°-20°   | 1846.8  | 5.6       |
| 20°-30°   | 3190.3  | 9.7       |
| 30°-40°   | 3707.7  | 11.3      |
| 40°-50°   | 5173.0  | 15.8      |
| 50°-60°   | 7019.2  | 21.4      |
| 60°-70°   | 6677.9  | 20.4      |
| 70°-80°   | 3607.6  | 11.0      |
| 80°-90°   | 808.5   | 2.5       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 32727.0 | 100.0     |
| 0°-180°   | 32727.0 | 100.0     |

**Coefficient of Utilization**



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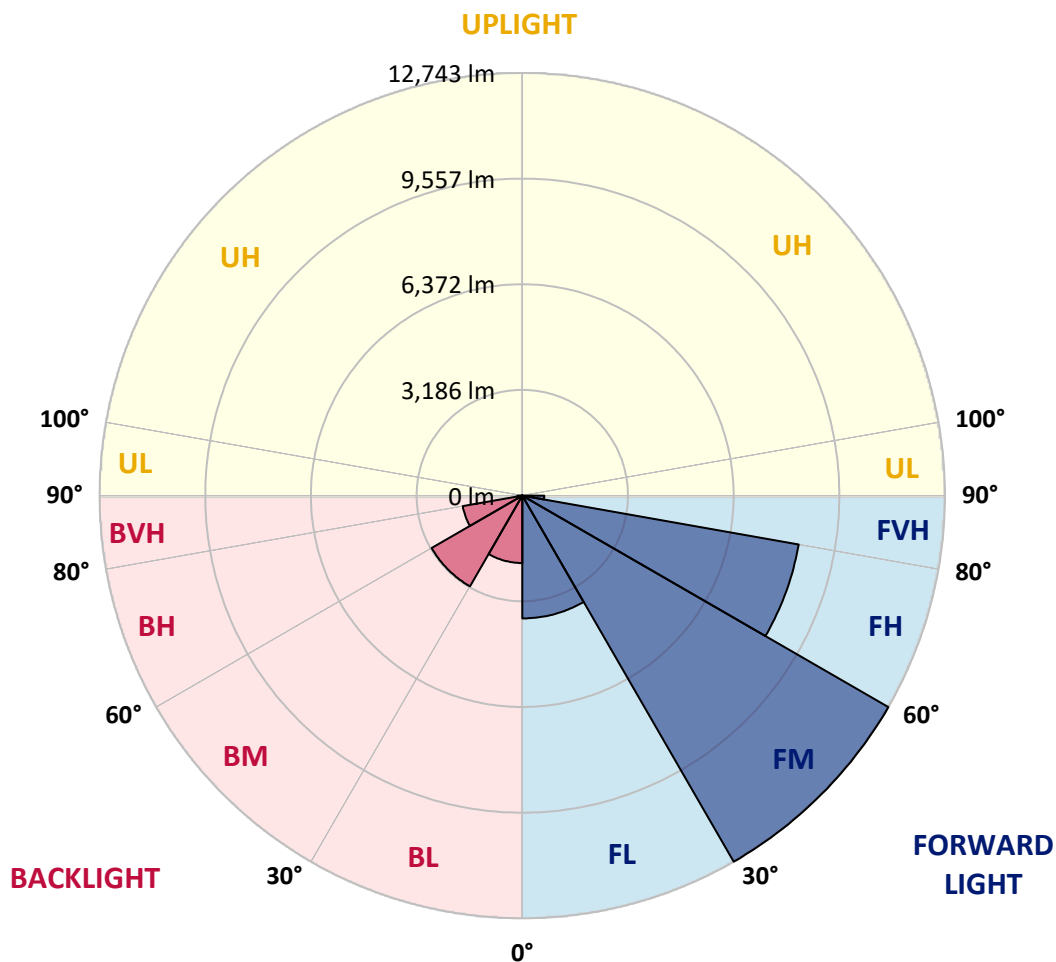
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3701.5  | 11.3      |                         |      |          |
| FM   | (30°-60°)   | 12743.2 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 8462.7  | 25.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 660.8   | 2.0       |                         |      | G4/750   |
| BL   | (0°-30°)    | 2031.7  | 6.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3156.6  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1822.8  | 5.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 147.8   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8213.2  | 8213.2  | 8213.2  | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 |
| 2.5°  | 9124.3  | 9089.8  | 8992.6  | 8737.9 | 8480.9 | 8219.7 | 8018.9 | 7768.4 | 7507.2 | 7366.8 | 7187.6 |
| 5°    | 9249.6  | 9210.7  | 8981.8  | 8407.5 | 7887.2 | 7340.9 | 6904.8 | 6522.6 | 6367.2 | 6138.3 | 5954.8 |
| 7.5°  | 8955.9  | 8938.7  | 8595.4  | 7770.6 | 7058.1 | 6343.4 | 5849.0 | 5542.4 | 5263.9 | 5160.2 | 5181.8 |
| 10°   | 8688.2  | 8619.1  | 8189.4  | 7112.1 | 6280.8 | 5700.0 | 5345.9 | 5045.8 | 4849.3 | 4797.5 | 4808.3 |
| 12.5° | 8465.8  | 8373.0  | 7865.6  | 6669.4 | 5941.8 | 5477.6 | 5026.4 | 4713.3 | 4534.1 | 4583.8 | 4752.2 |
| 15°   | 8420.5  | 8295.2  | 7729.6  | 6518.3 | 5756.1 | 5158.1 | 4663.6 | 4303.1 | 4169.2 | 4277.2 | 4547.1 |
| 17.5° | 8714.1  | 8556.5  | 7962.7  | 6568.0 | 5579.1 | 4832.1 | 4225.3 | 3813.0 | 3700.7 | 3873.4 | 4225.3 |
| 20°   | 9657.6  | 9424.5  | 8690.4  | 6855.1 | 5561.8 | 4670.1 | 3970.6 | 3556.0 | 3603.5 | 3931.7 | 4298.8 |
| 22.5° | 11402.2 | 11052.4 | 9964.2  | 7274.0 | 5652.5 | 4629.1 | 3918.8 | 3702.8 | 3964.1 | 4242.6 | 4484.4 |
| 25°   | 11747.6 | 11473.4 | 10193.1 | 7369.0 | 5633.1 | 4601.0 | 4065.6 | 4173.5 | 4465.0 | 4603.2 | 4519.0 |
| 27.5° | 11942.0 | 11628.9 | 10178.0 | 6898.3 | 5037.2 | 4173.5 | 3886.4 | 4065.6 | 4139.0 | 4005.1 | 3776.3 |
| 30°   | 12395.4 | 12069.3 | 10434.9 | 6403.9 | 4147.6 | 3096.1 | 2714.0 | 2640.6 | 2690.2 | 2716.1 | 2634.1 |
| 32.5° | 13019.3 | 12697.6 | 10918.5 | 6080.0 | 3586.3 | 2560.7 | 2185.0 | 2081.4 | 2057.6 | 2029.5 | 1997.2 |
| 35°   | 13826.8 | 13332.4 | 11393.5 | 5872.7 | 3355.2 | 2368.5 | 2023.1 | 1943.2 | 1910.8 | 1871.9 | 1837.4 |
| 37.5° | 14647.3 | 14129.1 | 11993.8 | 5654.7 | 3201.9 | 2234.7 | 1915.1 | 1878.4 | 1822.3 | 1781.3 | 1731.6 |
| 40°   | 15519.6 | 14938.8 | 12540.0 | 5464.7 | 3053.0 | 2148.3 | 1837.4 | 1833.1 | 1759.7 | 1712.2 | 1653.9 |
| 42.5° | 16275.3 | 15677.2 | 13028.0 | 5348.1 | 2938.5 | 2057.6 | 1789.9 | 1802.8 | 1727.3 | 1656.0 | 1580.5 |
| 45°   | 16875.5 | 16288.2 | 13479.2 | 5348.1 | 2845.7 | 1966.9 | 1781.3 | 1772.6 | 1697.0 | 1608.5 | 1522.2 |
| 47.5° | 17402.3 | 16795.6 | 13919.7 | 5484.1 | 2787.4 | 1891.4 | 1733.8 | 1748.9 | 1671.1 | 1558.9 | 1474.7 |
| 50°   | 17810.4 | 17274.9 | 14513.4 | 5695.7 | 2729.1 | 1830.9 | 1673.3 | 1755.3 | 1649.5 | 1533.0 | 1435.8 |
| 52.5° | 18330.7 | 17851.4 | 15228.1 | 5985.0 | 2679.4 | 1764.0 | 1619.3 | 1755.3 | 1647.4 | 1535.1 | 1429.3 |
| 55°   | 19051.9 | 18546.6 | 16089.6 | 6224.7 | 2599.6 | 1701.4 | 1571.8 | 1705.7 | 1640.9 | 1524.3 | 1412.0 |
| 57.5° | 19557.1 | 19179.2 | 16698.4 | 6384.4 | 2485.1 | 1621.5 | 1528.6 | 1658.2 | 1612.8 | 1483.3 | 1360.2 |
| 58°   | 19580.8 | 19211.6 | 16787.0 | 6421.1 | 2457.1 | 1606.4 | 1517.8 | 1636.6 | 1599.9 | 1466.0 | 1343.0 |
| 60°   | 19308.8 | 18991.4 | 16804.2 | 6369.3 | 2297.3 | 1530.8 | 1461.7 | 1548.1 | 1530.8 | 1364.5 | 1250.1 |
| 62.5° | 18319.9 | 17980.9 | 16106.9 | 5948.3 | 2085.7 | 1438.0 | 1375.3 | 1429.3 | 1390.5 | 1222.0 | 1116.3 |
| 65°   | 16914.4 | 16290.4 | 14673.2 | 5287.6 | 1934.5 | 1338.6 | 1258.8 | 1263.1 | 1222.0 | 1101.1 | 1008.3 |
| 67.5° | 15042.4 | 14345.0 | 12423.4 | 4456.4 | 1820.1 | 1228.5 | 1120.6 | 1109.8 | 1060.1 | 982.4  | 906.8  |
| 70°   | 12738.7 | 12261.5 | 10095.9 | 3625.1 | 1692.7 | 1107.6 | 965.1  | 958.6  | 928.4  | 870.1  | 803.2  |
| 72.5° | 10324.8 | 9718.1  | 8152.7  | 2901.8 | 1537.3 | 991.0  | 820.5  | 833.4  | 794.5  | 753.5  | 693.1  |
| 75°   | 7619.4  | 7222.2  | 6302.4  | 2327.5 | 1327.8 | 863.6  | 684.4  | 688.8  | 671.5  | 628.3  | 580.8  |
| 77.5° | 5017.7  | 4899.0  | 4508.2  | 1528.6 | 1021.3 | 686.6  | 559.2  | 563.5  | 550.6  | 511.7  | 462.0  |
| 80°   | 3376.8  | 3296.9  | 3055.1  | 984.5  | 682.3  | 496.6  | 431.8  | 436.1  | 434.0  | 393.0  | 326.0  |
| 82.5° | 2081.4  | 2046.8  | 1969.1  | 665.0  | 472.8  | 356.3  | 285.0  | 298.0  | 321.7  | 276.4  | 222.4  |
| 85°   | 982.4   | 984.5   | 1189.7  | 362.7  | 278.5  | 228.9  | 155.5  | 166.3  | 166.3  | 166.3  | 125.2  |
| 87.5° | 127.4   | 133.9   | 164.1   | 153.3  | 101.5  | 86.4   | 56.1   | 47.5   | 41.0   | 54.0   | 38.9   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 |
| 2.5°  | 7125.0 | 7081.8 | 6989.0 | 6967.4 | 6954.4 | 6991.2 | 6894.0 | 6919.9 | 6876.7 | 6997.6 | 6978.2 |
| 5°    | 5965.6 | 5969.9 | 6045.5 | 6095.1 | 6112.4 | 6095.1 | 6030.4 | 5918.1 | 5831.7 | 5797.2 | 5805.8 |
| 7.5°  | 5140.8 | 5216.4 | 5345.9 | 5490.6 | 5622.3 | 5661.1 | 5624.4 | 5410.7 | 5177.5 | 5030.7 | 4983.2 |
| 10°   | 4866.6 | 4968.1 | 5117.1 | 5231.5 | 5348.1 | 5440.9 | 5460.4 | 5294.1 | 5017.7 | 4670.1 | 4534.1 |
| 12.5° | 4881.7 | 5019.9 | 5162.4 | 5199.1 | 5188.3 | 5225.0 | 5207.7 | 5179.7 | 4998.3 | 4555.7 | 4329.0 |
| 15°   | 4739.2 | 4903.3 | 5002.6 | 4983.2 | 4948.6 | 4916.3 | 4870.9 | 4799.7 | 4734.9 | 4424.0 | 4173.5 |
| 17.5° | 4411.0 | 4579.4 | 4661.5 | 4668.0 | 4668.0 | 4659.3 | 4549.2 | 4523.3 | 4514.7 | 4363.5 | 4210.2 |
| 20°   | 4471.5 | 4564.3 | 4527.6 | 4467.2 | 4484.4 | 4542.7 | 4478.0 | 4465.0 | 4514.7 | 4581.6 | 4553.5 |
| 22.5° | 4506.0 | 4473.6 | 4197.3 | 3929.6 | 3869.1 | 4050.5 | 4087.2 | 4231.8 | 4432.6 | 4674.4 | 4832.1 |
| 25°   | 4292.3 | 4031.0 | 3536.6 | 3234.3 | 3063.8 | 3232.2 | 3452.4 | 3720.1 | 4020.2 | 4331.1 | 4514.7 |
| 27.5° | 3588.4 | 3389.8 | 3035.7 | 2763.6 | 2614.7 | 2640.6 | 2828.4 | 3072.4 | 3350.9 | 3560.3 | 3694.2 |
| 30°   | 2703.2 | 2614.7 | 2431.1 | 2338.3 | 2247.6 | 2226.0 | 2305.9 | 2398.8 | 2521.8 | 2547.7 | 2582.3 |
| 32.5° | 1990.7 | 1977.7 | 1988.5 | 1958.3 | 1941.0 | 1938.9 | 1915.1 | 1936.7 | 1949.7 | 1964.8 | 1934.5 |
| 35°   | 1800.7 | 1783.4 | 1753.2 | 1744.5 | 1733.8 | 1738.1 | 1727.3 | 1716.5 | 1725.1 | 1738.1 | 1746.7 |
| 37.5° | 1703.5 | 1677.6 | 1634.4 | 1619.3 | 1619.3 | 1625.8 | 1608.5 | 1604.2 | 1619.3 | 1660.3 | 1681.9 |
| 40°   | 1628.0 | 1597.7 | 1548.1 | 1528.6 | 1541.6 | 1558.9 | 1535.1 | 1526.5 | 1563.2 | 1606.4 | 1640.9 |
| 42.5° | 1556.7 | 1533.0 | 1485.5 | 1463.9 | 1474.7 | 1507.0 | 1472.5 | 1466.0 | 1513.5 | 1561.0 | 1602.0 |
| 45°   | 1496.3 | 1472.5 | 1429.3 | 1418.5 | 1422.8 | 1453.1 | 1429.3 | 1429.3 | 1474.7 | 1526.5 | 1563.2 |
| 47.5° | 1448.8 | 1418.5 | 1390.5 | 1381.8 | 1386.1 | 1403.4 | 1399.1 | 1399.1 | 1442.3 | 1496.3 | 1533.0 |
| 50°   | 1401.3 | 1375.3 | 1338.6 | 1343.0 | 1353.8 | 1377.5 | 1375.3 | 1381.8 | 1425.0 | 1491.9 | 1530.8 |
| 52.5° | 1379.7 | 1340.8 | 1299.8 | 1304.1 | 1336.5 | 1364.5 | 1355.9 | 1362.4 | 1412.0 | 1537.3 | 1593.4 |
| 55°   | 1355.9 | 1304.1 | 1256.6 | 1263.1 | 1299.8 | 1340.8 | 1330.0 | 1338.6 | 1396.9 | 1567.5 | 1645.2 |
| 57.5° | 1310.6 | 1250.1 | 1198.3 | 1202.6 | 1256.6 | 1299.8 | 1282.5 | 1293.3 | 1362.4 | 1535.1 | 1617.2 |
| 58°   | 1291.1 | 1239.3 | 1189.7 | 1191.8 | 1243.6 | 1291.1 | 1271.7 | 1280.3 | 1351.6 | 1526.5 | 1604.2 |
| 60°   | 1209.1 | 1178.9 | 1135.7 | 1137.8 | 1187.5 | 1228.5 | 1217.7 | 1226.4 | 1295.5 | 1463.9 | 1522.2 |
| 62.5° | 1096.8 | 1079.5 | 1068.8 | 1068.8 | 1099.0 | 1137.8 | 1148.6 | 1159.4 | 1222.0 | 1323.5 | 1375.3 |
| 65°   | 975.9  | 975.9  | 978.1  | 978.1  | 997.5  | 1047.2 | 1053.6 | 1081.7 | 1140.0 | 1189.7 | 1228.5 |
| 67.5° | 893.9  | 889.5  | 893.9  | 883.1  | 891.7  | 921.9  | 954.3  | 980.2  | 1040.7 | 1075.2 | 1088.2 |
| 70°   | 788.1  | 785.9  | 788.1  | 773.0  | 783.8  | 809.7  | 831.3  | 874.4  | 937.0  | 963.0  | 969.4  |
| 72.5° | 684.4  | 684.4  | 688.8  | 678.0  | 678.0  | 706.0  | 721.1  | 768.6  | 826.9  | 842.0  | 844.2  |
| 75°   | 576.5  | 583.0  | 583.0  | 567.8  | 572.2  | 589.4  | 608.9  | 647.7  | 701.7  | 712.5  | 712.5  |
| 77.5° | 457.7  | 481.5  | 481.5  | 466.4  | 472.8  | 475.0  | 500.9  | 520.3  | 561.4  | 565.7  | 548.4  |
| 80°   | 332.5  | 356.3  | 375.7  | 362.7  | 373.5  | 360.6  | 375.7  | 388.6  | 429.7  | 410.2  | 382.2  |
| 82.5° | 237.5  | 254.8  | 269.9  | 272.0  | 261.3  | 237.5  | 256.9  | 259.1  | 278.5  | 252.6  | 237.5  |
| 85°   | 131.7  | 146.8  | 166.3  | 157.6  | 140.3  | 125.2  | 131.7  | 136.0  | 133.9  | 127.4  | 118.8  |
| 87.5° | 34.5   | 36.7   | 41.0   | 30.2   | 28.1   | 23.8   | 32.4   | 32.4   | 36.7   | 38.9   | 36.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2 | 8213.2  | 8213.2  | 8213.2  |
| 2.5°  | 6993.3 | 7088.3 | 7293.4 | 7448.9 | 7638.9 | 7869.9 | 8141.9 | 8416.2 | 8711.9  | 8804.8  | 8934.3  |
| 5°    | 5786.4 | 6023.9 | 6123.2 | 6406.0 | 6686.7 | 7107.7 | 7556.8 | 8077.2 | 8647.2  | 8921.4  | 9184.8  |
| 7.5°  | 4944.3 | 5071.7 | 5175.4 | 5382.6 | 5719.4 | 6231.1 | 6794.7 | 7444.6 | 8252.1  | 8651.5  | 9038.0  |
| 10°   | 4490.9 | 4503.9 | 4631.3 | 4888.2 | 5181.8 | 5633.1 | 6166.4 | 6894.0 | 7794.3  | 8280.1  | 8733.5  |
| 12.5° | 4190.8 | 4134.7 | 4272.8 | 4540.6 | 4873.1 | 5289.8 | 5779.9 | 6473.0 | 7464.0  | 7962.7  | 8511.2  |
| 15°   | 3927.4 | 3838.9 | 3942.5 | 4216.7 | 4544.9 | 5035.0 | 5561.8 | 6295.9 | 7334.4  | 7915.2  | 8524.1  |
| 17.5° | 3933.9 | 3689.9 | 3726.6 | 3957.6 | 4283.6 | 4782.4 | 5421.5 | 6289.4 | 7530.9  | 8200.2  | 8921.4  |
| 20°   | 4419.7 | 4028.9 | 3862.6 | 3905.8 | 4221.0 | 4765.1 | 5486.3 | 6591.7 | 8176.5  | 9152.4  | 9923.2  |
| 22.5° | 4896.8 | 4661.5 | 4393.8 | 4305.2 | 4478.0 | 5048.0 | 5898.6 | 7306.4 | 9579.9  | 11050.2 | 12442.9 |
| 25°   | 4730.6 | 4931.4 | 4864.4 | 4739.2 | 4778.1 | 5250.9 | 6179.3 | 7893.7 | 10670.2 | 12326.3 | 13634.7 |
| 27.5° | 3784.9 | 4149.8 | 4223.2 | 4221.0 | 4236.1 | 4624.8 | 5557.5 | 7498.5 | 10806.3 | 12570.3 | 13820.4 |
| 30°   | 2660.0 | 2692.4 | 2731.3 | 2806.8 | 2875.9 | 3223.5 | 4348.4 | 6583.1 | 10745.8 | 12680.4 | 13932.6 |
| 32.5° | 1919.4 | 1962.6 | 2016.6 | 2120.2 | 2284.3 | 2726.9 | 3804.3 | 6291.6 | 11065.4 | 13135.9 | 14260.8 |
| 35°   | 1755.3 | 1805.0 | 1856.8 | 1975.6 | 2131.0 | 2541.3 | 3588.4 | 6170.7 | 11590.0 | 13874.3 | 14850.3 |
| 37.5° | 1703.5 | 1759.7 | 1805.0 | 1891.4 | 2016.6 | 2407.4 | 3391.9 | 6088.6 | 12127.6 | 14655.9 | 15640.5 |
| 40°   | 1666.8 | 1731.6 | 1768.3 | 1837.4 | 1923.8 | 2284.3 | 3217.1 | 6023.9 | 12648.0 | 15370.6 | 16275.3 |
| 42.5° | 1634.4 | 1701.4 | 1748.9 | 1798.5 | 1869.8 | 2174.2 | 3061.6 | 5959.1 | 13099.2 | 16063.7 | 16907.9 |
| 45°   | 1595.6 | 1679.8 | 1740.2 | 1779.1 | 1841.7 | 2081.4 | 2942.8 | 5907.3 | 13613.1 | 16679.0 | 17547.0 |
| 47.5° | 1563.2 | 1656.0 | 1731.6 | 1776.9 | 1800.7 | 2016.6 | 2847.8 | 5978.5 | 14230.6 | 17322.4 | 18140.7 |
| 50°   | 1565.3 | 1653.9 | 1748.9 | 1820.1 | 1757.5 | 1962.6 | 2789.6 | 6261.4 | 15033.8 | 18086.7 | 18609.2 |
| 52.5° | 1634.4 | 1742.4 | 1818.0 | 1835.2 | 1697.0 | 1897.8 | 2759.3 | 6755.8 | 15983.8 | 18762.5 | 19082.1 |
| 55°   | 1712.2 | 1824.4 | 1906.5 | 1895.7 | 1664.7 | 1815.8 | 2752.8 | 7282.6 | 17024.5 | 19550.6 | 19697.4 |
| 57.5° | 1684.1 | 1848.2 | 1973.4 | 1917.3 | 1666.8 | 1735.9 | 2724.8 | 7708.0 | 17894.6 | 20140.0 | 20306.3 |
| 58°   | 1675.5 | 1839.5 | 1982.0 | 1913.0 | 1660.3 | 1712.2 | 2718.3 | 7744.7 | 18015.5 | 20181.1 | 20392.7 |
| 60°   | 1591.3 | 1764.0 | 1975.6 | 1880.6 | 1623.6 | 1647.4 | 2647.1 | 7863.4 | 17983.1 | 19969.5 | 20444.5 |
| 62.5° | 1438.0 | 1580.5 | 1826.6 | 1723.0 | 1511.4 | 1561.0 | 2487.3 | 7716.6 | 17106.5 | 18950.4 | 19686.6 |
| 65°   | 1265.2 | 1371.0 | 1535.1 | 1515.7 | 1351.6 | 1472.5 | 2269.2 | 7135.8 | 15351.2 | 17296.5 | 18071.6 |
| 67.5° | 1135.7 | 1222.0 | 1325.7 | 1297.6 | 1215.6 | 1353.8 | 2033.9 | 6153.4 | 13382.1 | 15310.1 | 16286.1 |
| 70°   | 1004.0 | 1070.9 | 1122.7 | 1103.3 | 1077.4 | 1237.2 | 1824.4 | 4994.0 | 11495.0 | 13423.1 | 14368.8 |
| 72.5° | 870.1  | 932.7  | 975.9  | 947.8  | 932.7  | 1114.1 | 1653.9 | 3875.6 | 9079.0  | 11074.0 | 12289.6 |
| 75°   | 727.6  | 790.2  | 820.5  | 788.1  | 779.4  | 982.4  | 1401.3 | 2895.3 | 6811.9  | 8537.1  | 9586.4  |
| 77.5° | 563.5  | 630.5  | 669.3  | 658.5  | 662.8  | 807.5  | 1131.4 | 1982.0 | 4870.9  | 5818.8  | 6924.2  |
| 80°   | 395.1  | 468.5  | 494.4  | 483.6  | 513.9  | 615.3  | 798.9  | 1258.8 | 3359.6  | 3776.3  | 4555.7  |
| 82.5° | 244.0  | 313.1  | 317.4  | 328.2  | 349.8  | 455.6  | 602.4  | 766.5  | 2109.4  | 2180.7  | 2746.4  |
| 85°   | 123.1  | 149.0  | 159.8  | 177.0  | 196.5  | 278.5  | 343.3  | 475.0  | 1358.1  | 1027.7  | 1535.1  |
| 87.5° | 41.0   | 43.2   | 51.8   | 64.8   | 79.9   | 114.4  | 146.8  | 194.3  | 336.8   | 185.7   | 475.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |



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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8213.2  | 8213.2  | 8213.2  | 8213.2  | 8213.2  | 8213.2  | 8213.2  | 8213.2  | 8213.2  | 8213.2  |
| 2.5°  | 9195.6  | 9379.1  | 9513.0  | 9636.0  | 9517.3  | 9506.5  | 9389.9  | 9202.1  | 9124.3  | 9124.3  |
| 5°    | 9737.5  | 10167.2 | 10514.8 | 10737.2 | 10642.2 | 10413.3 | 10035.5 | 9554.0  | 9294.9  | 9249.6  |
| 7.5°  | 9886.5  | 10735.0 | 11380.6 | 11609.5 | 11449.7 | 10944.5 | 10221.2 | 9409.3  | 9038.0  | 8955.9  |
| 10°   | 9795.8  | 10899.1 | 11847.0 | 12209.7 | 11987.3 | 11223.0 | 10236.3 | 9240.9  | 8783.2  | 8688.2  |
| 12.5° | 9700.8  | 10920.7 | 11933.3 | 12458.0 | 12313.3 | 11447.5 | 10346.4 | 9130.8  | 8601.8  | 8465.8  |
| 15°   | 9769.9  | 10929.3 | 11827.5 | 12369.5 | 12462.3 | 11717.4 | 10527.7 | 9210.7  | 8565.1  | 8420.5  |
| 17.5° | 10206.0 | 11093.4 | 11676.4 | 12114.7 | 12440.7 | 12084.5 | 11043.8 | 9592.9  | 8893.3  | 8714.1  |
| 20°   | 11117.2 | 11486.4 | 11762.8 | 12101.7 | 12626.4 | 12833.7 | 12099.6 | 10642.2 | 9815.2  | 9657.6  |
| 22.5° | 13755.6 | 13688.7 | 13123.0 | 13116.5 | 13876.5 | 14707.8 | 14658.1 | 12775.4 | 11531.7 | 11402.2 |
| 25°   | 14744.5 | 14433.6 | 13615.3 | 13416.6 | 13751.3 | 15033.8 | 14848.1 | 13211.5 | 12062.9 | 11747.6 |
| 27.5° | 14358.0 | 13587.2 | 13049.6 | 13004.2 | 12894.1 | 14105.4 | 14552.3 | 13388.6 | 12248.5 | 11942.0 |
| 30°   | 14334.2 | 13200.7 | 12432.1 | 12522.8 | 12628.5 | 13785.8 | 14716.4 | 13943.4 | 12723.5 | 12395.4 |
| 32.5° | 14392.5 | 13254.7 | 12477.4 | 12494.7 | 12809.9 | 13833.3 | 14897.8 | 14548.0 | 13347.5 | 13019.3 |
| 35°   | 14627.9 | 13561.3 | 12766.7 | 12725.7 | 13218.0 | 14144.2 | 15206.5 | 15498.0 | 14200.4 | 13826.8 |
| 37.5° | 15007.9 | 14172.3 | 13295.7 | 13284.9 | 13999.6 | 14705.6 | 15590.8 | 16456.6 | 15048.9 | 14647.3 |
| 40°   | 15567.1 | 14887.0 | 14237.1 | 14178.8 | 15061.8 | 15618.9 | 16089.6 | 17477.9 | 16035.6 | 15519.6 |
| 42.5° | 16242.9 | 15744.1 | 15478.6 | 15709.6 | 16558.1 | 16644.5 | 16866.9 | 18421.4 | 16875.5 | 16275.3 |
| 45°   | 16869.0 | 16845.3 | 17214.5 | 17827.7 | 18322.1 | 17803.9 | 17678.7 | 19054.0 | 17527.5 | 16875.5 |
| 47.5° | 17613.9 | 18257.3 | 19371.4 | 20269.6 | 20787.8 | 19153.3 | 18371.7 | 19466.4 | 18002.5 | 17402.3 |
| 50°   | 18369.6 | 19947.9 | 21727.0 | 22979.3 | 23089.4 | 20619.4 | 18848.9 | 19855.0 | 18434.4 | 17810.4 |
| 52.5° | 19164.1 | 21297.3 | 23665.8 | 25121.1 | 24907.3 | 21895.4 | 19310.9 | 20118.5 | 18879.1 | 18330.7 |
| 55°   | 19855.0 | 22124.2 | 24749.7 | 26146.6 | 25833.6 | 22672.7 | 19809.7 | 20403.5 | 19513.9 | 19051.9 |
| 57.5° | 20241.5 | 22193.3 | 24479.8 | 25699.7 | 25360.7 | 22521.5 | 20038.6 | 20615.0 | 19919.8 | 19557.1 |
| 58°   | 20297.7 | 22100.5 | 24240.2 | 25440.6 | 25095.2 | 22394.1 | 20036.4 | 20606.4 | 19945.7 | 19580.8 |
| 60°   | 20248.0 | 21498.1 | 23348.5 | 24417.2 | 24054.5 | 21595.3 | 19954.4 | 20444.5 | 19617.5 | 19308.8 |
| 62.5° | 19788.1 | 20453.1 | 21809.0 | 22586.3 | 22482.7 | 20347.3 | 19617.5 | 19833.4 | 18617.9 | 18319.9 |
| 65°   | 19183.6 | 19028.1 | 19837.8 | 20388.3 | 20466.1 | 19412.4 | 19282.9 | 18512.1 | 17335.4 | 16914.4 |
| 67.5° | 18449.5 | 17413.1 | 17410.9 | 17724.0 | 17853.6 | 17974.5 | 18585.5 | 17076.3 | 15487.2 | 15042.4 |
| 70°   | 17203.7 | 14923.7 | 14237.1 | 14606.3 | 14498.3 | 15519.6 | 17339.7 | 15059.7 | 13259.0 | 12738.7 |
| 72.5° | 14919.3 | 11842.6 | 10743.7 | 11218.7 | 10946.6 | 12170.8 | 15172.0 | 12393.2 | 10963.9 | 10324.8 |
| 75°   | 12093.1 | 8858.8  | 7725.2  | 8161.4  | 7993.0  | 9232.3  | 12624.2 | 9001.3  | 7863.4  | 7619.4  |
| 77.5° | 9389.9  | 6419.0  | 5760.5  | 5700.0  | 5825.2  | 6870.2  | 9260.4  | 6077.9  | 5184.0  | 5017.7  |
| 80°   | 6032.5  | 4594.6  | 4633.4  | 4555.7  | 4620.5  | 4331.1  | 5622.3  | 3877.7  | 3510.7  | 3376.8  |
| 82.5° | 3970.6  | 3201.9  | 3817.3  | 3523.6  | 3346.6  | 2912.6  | 3687.7  | 2539.1  | 2154.8  | 2081.4  |
| 85°   | 2705.3  | 2357.7  | 2146.1  | 1640.9  | 1932.4  | 2243.3  | 2765.8  | 1366.7  | 1083.9  | 982.4   |
| 87.5° | 1222.0  | 820.5   | 602.4   | 371.4   | 587.3   | 678.0   | 1343.0  | 159.8   | 123.1   | 127.4   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)